117° 52' 30" Yorba Linda 117° 30' 00" 117° 37' 30" Placentia Fullerton 118° 07' 30' Villa Park Cypress Orange Los Alamitos Garden Grove North Tustin Seal Beach Santa Ana Sunset Beach Huntington Beach Lake Forest Rancho Santa Margarita 33° 37' 30" 118° 00' 00" 118° 07' 30" Laguna Woods Mission Viejo Coto de Caza Laguna Hills **Newport Beach** Ladera Ranch Laguna Beach Laguna Niguel 117° 52' 30" San Juan Capistrano Scale: 1:100,000 **Projection: Teale Albers** San Clemente Datum: NAD 83 33° 22' 30" 33° 22' 30" 117° 30' 00" 117° 37' 30" 117° 45' 00"

Radon Potential Zone Map for Orange County, California

Ronald K. Churchill, Ph.D (PG 4265)

2015

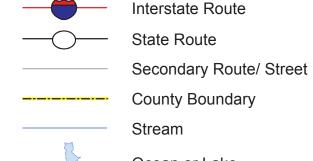
RADON ZONE DEFINITIONS

Moderate Potential For Indoor Radon Levels Above Four Picocuries Per Liter* Low Potential For Indoor Radon Levels

Above Four Picocuries Per Liter* Unknown Potential For Indoor Radon Levels Above Four Picocuries Per Liter*

* The U.S. Environmental Protection Agency (EPA) recommends four picocuries per liter as the action level for radon reduction.

BASE MAP LAYERS



Ocean or Lake



MAP USAGE AND LIMITATIONS

This map identifies areas where geologic conditions are more likely to produce excessive indoor radon levels. The map is intended to be advisory only. It is intended to assist national, state and local governments and organizations in targeting their radon program activities and resources. This map it not intended for determining which buildings have excessive indoor radon levels. Besides geology, local variability in such factors as soil permeability, weather and climatic conditions, building design and condition, and building usage also influence indoor radon levels. Consequently, building-specific radon levels can only be determined by indoor radon testing. No warranty as to actual radon levels at specific sites is expressed or implied by this map or the accompanying report.

The U.S. Environmental Protection Agency (EPA) recommends that all homes be tested for radon whatever their geographic location. Homes with elevated radon levels have been found in all zones within Orange County. The U.S. EPA recommends that action be taken to reduce radon in homes with an average annual level higher than four picocuries per liter (4 pCi/L).

Questions regarding this map should be directed to:

California Department of Public Health, Indoor Radon Program, Telephone: (916) 449-5674 Email: Radonprogram@cdph.ca.gov

California Geological Survey Telephone: (916) 445-1825 Email: mrmhmp@consrv.ca.gov

Additional information about radon can be found at the following websites:

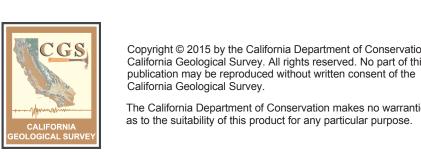
California Department of Public Health, Indoor Radon Program:

California Geological Survey-Mineral Resources Program: http://www.conservation.ca.gov/cgs/minerals/hazardous_minerals/radon/ Pages/Index.aspx

U.S. EPA: http://www.epa.gov/iaq/radon/

Map Sources (Digital GIS Layers):

Hydrography - US Census Bureau - 2010 Roads - US Census Bureau - 2010



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